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Name and mailing address of the International Searching Authority

Guide, Volume II, National Chapters and the WIPO Internet site.

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's

European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk

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Patrick Wach

Authorized officer

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international policiation. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 45.2).

Where a demand for international preliminary examination has been its filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended, it must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 - "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

Notes to Form PCT/ISA/220 (second sheet) (January 1994)

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

P17955W0 ACTION as well as, where applicable, larn 5 below. International application No. International sing date (day/month/year) (Eartiest) Priority Date (day/month/year) PCT/GB2004/004268 08/10/2004 10/10/2003 Applicant UNIVERSITY OF SOUTHAMPTON This International Search Report has been prepared by this International Searching Authority and its transmitted to the applicant according to Article 16. A copy is being transmitted to the international Search Report consists of a total of sheets. It is also accompanied by a copy of each prior and document cited in this report. 1. Basis of the report a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)). b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application furnished to this Authority (Rule 23.1(b)). 2. Certain claims were found unsearchable (See Box II). 3. Unity of invention is lacking (see Box III). 4. With regard to the Utile,	Applicant's or agent's file reference	FOR FURTHER	see Form PCT/ISA/220				
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INTERNATIONAL SEARCH REPORT

International Application No PCT/GB2004/004268

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 G02B6/12 G02B6/16

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 G02B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, COMPENDEX, INSPEC

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Х	WO 03/058307 A (DOUGHTY CHRISTOPHER; BRADY DAVID J (US); JIN GUANGHAI (US); SALERNO J) 17 July 2003 (2003-07-17) claims 1-3	1-54
X	COLEMAN N R ET AL: "The formation of dimensionally ordered silicon nanowires within mesoporous silica." JOURNAL OF THE AMERICAN CHEMICAL SOCIETY. 10 JAN 2001, vol. 123, no. 1, 10 January 2001 (2001-01-10), pages 187-188, XP002314585 ISSN: 0002-7863 cited in the application the whole document -/	1-5, 8-15,22, 23,32

Further documents are listed in the continuation of box C.	X Patent family members are listed in annex.
Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another clation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed	 *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. *&* document member of the same patent family
Date of the actual completion of the international search	Date of mailing of the international search report
24 January 2005	07/02/2005
Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Verbandt, Y

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INTERNATIONAL SEARCH REPORT

International Application No
PCT/GB2004/004268

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Category *	Chanon of document, with indication, where appropriate, of the relevant passages	Helevant to claim No.
x	FOKINE M ET AL: "INTEGRATED FIBER MACH-ZEHNDER INTERFEROMETER FOR ELECTRO-OPTIC SWITCHING" OPTICS LETTERS, OPTICAL SOCIETY OF AMERICA, WASHINGTON, US, vol. 27, no. 18, 15 September 2002 (2002-09-15), pages 1643-1645, XP001161779 ISSN: 0146-9592 cited in the application the whole document	i
X A	EP 1 345 069 A (FITEL USA CORP A DELAWARE CORP) 17 September 2003 (2003-09-17) paragraphs '0017!, '0019!, '0020!	1,3-54
A	paragraphs 0017:, 0019:, 0020:	
Α	HOLMES J D ET AL: "Control of thickness and orientation of solution-grown silicon nanowires" SCIENCE AMERICAN ASSOC. ADV. SCI USA, vol. 287, no. 5457, 25 February 2000 (2000-02-25), pages 1471-1473, XP002314586 ISSN: 0036-8075 cited in the application the whole document	51
А	COOPER ANDREW I: "Porous materials and supercritical fluids" ADV MATER; ADVANCED MATERIALS JUL 4 2003, vol. 15, no. 13, 4 July 2003 (2003-07-04), pages 1049-1059, XP002314587	
A,P	LARSEN THOMAS TANGGAARD ET AL: "Optical devices based on liquid crystal photonic bandgap fibres" OPT. EXPRESS; OPTICS EXPRESS OCTOBER 2003, vol. 11, no. 20, October 2003 (2003-10), pages 2589-2596, XP002314588	
А	WATSON MICHAEL S ET AL: "Incorporation of proteins into polymer materials by a novel supercritical fluid processing method" ADV MATER; ADVANCED MATERIALS DEC 17 2002, vol. 14, no. 24, 17 December 2002 (2002-12-17), pages 1802-1804, XP002314589	
Α ·	EGGLETON B J ET AL: "Microstructured optical fiber devices" OPT. EXPRESS; OPTICS EXPRESS DECEMBER 2001, vol. 9, no. 13, December 2001 (2001-12), pages 698-713, XP002314590	

1

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/GB2004/004268

	Patent document cited in search report				Patent family member(s)	Publication date	
	WO 03058307	Α	17-07-2003	US WO	2003123827 A1 03058307 A2	03-07-2003 17-07-2003	
:	EP 1345069	A	17-09-2003	US EP	2003174985 A1 1345069 A2	18-09-2003 17-09-2003	

PATENT COOPERATION TREATY

INTERNATIONAL SEARCHING AUTHORITY

То:			PCT		
see form PCT/ISA/220		WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) , Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet)			
Applicant's or agent's file reference see form PCT/ISA/220		FOR FURTHER A			
International application No. PCT/GB2004/004268	International filing date (d 08.10.2004	day/month/year)	Priority date (day/month/year) 10.10.2003		
International Patent Classification (IPC) or G02B6/12, G02B6/16	both national classification	and IPC			
Applicant UNIVERSITY OF SOUTHAMPTO	N				
Applicant UNIVERSITY OF SOUTHAMPTON 1. This opinion contains indications relating to the following items: □ Box No. I Basis of the opinion □ Box No. II Priority □ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability □ Box No. IV Lack of unity of invention □ Box No. IV Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement □ Box No. VI Certain documents cited □ Box No. VII Certain defects in the international application □ Box No. VIII Certain observations on the international application 2. FURTHER ACTION If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further details, see notes to Form PCT/ISA/220.					
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Name and mailing address of the ISA:



European Patent Office - P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk - Pays Bas Tel. +31 70 340 - 2040 Tx: 31 651 epo nl Fax: +31 70 340 - 3016

Authorized Officer

Verbandt, Y

Telephone No. +31 70 340-2939



WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/GB2004/004268

	Box	No.	I Basis of the opinion
1.			ard to the language, this opinion has been established on the basis of the international application in lage in which it was filed, unless otherwise indicated under this item.
	1	lange	opinion has been established on the basis of a translation from the original language into the following uage , which is the language of a translation furnished for the purposes of international search ler Rules 12.3 and 23.1(b)).
2.	With nece	rega essar	ard to any nucleotide and/or amino acid sequence disclosed in the international application and by to the claimed invention, this opinion has been established on the basis of:
	a. typ	pe of	f material:
] a	sequence listing
] ta	able(s) related to the sequence listing
	b. for	rmat	of material:
] ir	n written format
] ir	n computer readable form
	c. tin	ne of	f filing/furnishing:
] с	ontained in the international application as filed.
) fi	led together with the international application in computer readable form.
) ft	urnished subsequently to this Authority for the purposes of search.
3.	í	has copi	ddition, in the case that more than one version or copy of a sequence listing and/or table relating thereto been filed or furnished, the required statements that the information in the subsequent or additional es is identical to that in the application as filed or does not go beyond the application as filed, as copriate, were furnished.
4.	Addi	itiona	al comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/GB2004/004268

_							
	Box	No. II	Priority				
1.	☐ The following document has not been furnished:						
			copy of the earlier app	lication	whose prior	ity has been claimed (Rule 43 <i>bis</i> .1 and 66.7(a)).	
			translation of the earlie	er appli	cation whose	e priority has been claimed (Rule 43bis.1 and 66.7(b)).	
		Consecutive neverth	quently it has not been p neless been established	possib I on the	le to conside e assumptior	r the validity of the priority claim. This opinion has a that the relevant date is the claimed priority date.	
2.		☐ This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rules 43 <i>bis</i> .1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date.					
3.	⊠	It has not been possible to consider the validity of the priority claim because a copy of the priority document was not available to the ISA at the time that the search was conducted (Rule 17.1). This opinion has nevertheless been established on the assumption that the relevant date is the claimed priority date.					
4.	Add	litional o	observations, if necessa	ırv:			
			,	. , .			
_							
		c No. V ustrial :	Reasoned statemer applicability; citations	nt und and e	er Rule 43 <i>bi</i> explanations	s.1(a)(i) with regard to novelty, inventive step or supporting such statement	
1.	Sta	tement					
	Nos	∕elty (N)		Vac-	Claims		
	1404	City (14)		No:	Claims	1-53	
	Inve	entive st	tep (IS)	Yes:	Claims		
				No:	Claims	1-53	
	Indi	ustrial a	pplicability (IA)	Yes:	Claims	1-53	
				No:	Claims		
2.	Cita	ations a	nd explanations				

see separate sheet

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/GB2004/004268

1 The following document is referred to in this communication:

D1: WO 03/058307 A (DOUGHTY CHRISTOPHER; BRADY DAVID J (US); JIN GUANGHAI (US); SALERNO J) 17 July 2003

2 INDEPENDENT CLAIM 1 and DEPENDENT CLAIM 2

2.1 The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 1 is not new in the sense of Article 33(2) PCT. Document D1 discloses (the references in parentheses applying to this document) in claims 1-3 a photonic crystal structure as claimed in claims 1 and 2 of the present application.

3 DEPENDENT CLAIMS 3-54

Dependent claims 3-54 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty and/or inventive step (Article 33(2) and (3) PCT).